

VOZKA, Vladimir, dr.

Regulation of the worktime in relation to the Christmas and  
New Year holidays. Prace mzda 12 no.12:566-567 D '64.

11.2231  
15.8220

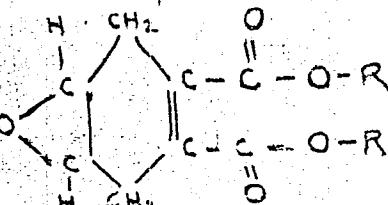
38519  
S/153/62/005/002/004/004  
E112/E453

AUTHORS: Vozkresenskiy, V.A., Shakirzyanova, S.S.,  
Byl'yev, V.A.

TITLE: Factors affecting the plastification of polyvinyl chloride with the epoxides of the tetrahydrophthalates

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, v.5, no.2, 1962, 322-325

TEXT: Polyvinyl chloride was plasticized in the presence of calcium stearate under conditions of constant weight ratios, and also in molar proportions, with the esters of epoxy-tetrahydro-phthalic acid of the general formula.



Card 1/3

S/153/62/005/002/004/004  
E112/E453

Factors affecting the ...

where R = methyl, ethyl, propyl, butyl, isobutyl, isoamyl, octyl, nonyl and decyl. The following physico-chemical constants of the plasticized compositions were determined: 1) relative elongation; 2) hardness (according to Jones); 3) resistance to degradation; 4) physico-chemical constants were correlated with the structural characteristics of R (chain length, molecular size and configuration). Thus, the relative elongation increased from 185.5 to 270% when methyl was replaced by decyl, and when both the plasticizers were used in identical quantities. When both plasticizers were compared in molecular proportion, the increase in relative elongation amounted to 410% from 260%, respectively. It is concluded that the physico-chemical properties of the plasticized compositions is affected equally by the quantities of plasticizer used as by their chemical characteristics and the effects are similar to those described by the authors previously for the unsubstituted phthalates. The following esters of the epoxidized tetrahydrophthalic acid were found of special interest as plasticizers: Plasticizer no.1 - dibenzyl and no.2 - ethylenechlorhydrine. Their characteristics, such as Card '2/3

S/153/62/005/002/004/004  
E112/E453

Factors affecting the ...

stability to degradation, relative elongation and strength after 100 hours ageing are tabulated and compared with dibutyl phthalate. The epoxidized compounds give generally plastification which is slightly superior, with respect to thermal degradation on ageing, to the unsubstituted phthalic acid esters. There are 1 figure and 2 tables.

ASSOCIATION: Kazanskiy inzhenerno-stroitel'nyy institut  
Kafedra khimii (Kazan' Institute of Construction  
Engineering, Chemistry Department)

SUBMITTED: December 24, 1960

Card 3/3

VOZLINSKAYA, V.M. (Moskva)

Treatment and prevention of rheumatism in children. Fel'd.i  
akush. 27 no.7:13-17 Jl '62. (MIRA 15:9)  
(RHEUMATIC FEVER)

ZIL'BERSHTYN, M.S.; LEVIN, Ye.R.; VOZLINSKAYA, V.M.

Course of rheumatism in children in sanatoria. Pediatriss 39 no.4:  
68-74 Jl-Ag '56. (MIRA 9:12)

1. Iz sanatoriya No.37 Moszdravotdela dlya detey, bol'nykh revmatizmom (glavnnyy vrach T.A.Kosolapova)  
(RHEUMATISM, in inf. and child  
clin. aspects & ther.)

ZAYKOV, S.T.; KRAVTSOV, P.Ya.; NIKIFOROV, B.V.; KOVAL', V.Ye.; ZHIGULIN, V.I.;  
RUBINSKIY, P.S.; LIFSHITS, S.I.; YEVSTAF'YEV, Ye.I.; NIKONOV, V.F.;  
VOZLINSKIY, A.G.

Using oxygen-blown converter steel in automobile manufacture.  
Met. i gornorud. prom. no.4:26-31 Jl-Ag '64.

(MIRA 18:7)

GRINKRUG, V.L.; GRUZDOV, P.Ya.; NIKONOV, V.F.; VOZLINSKIY, A.G.

Using 40 KhGTR steel for the half-axles of automobile driving  
axles. Metalloved. i term. obr. met. no. 6:15-19 Je '63.

(MIRA 16:6)

(Automobiles--Axles)  
(Steel alloys--Testing)

VOZMILCOVA, L.N.; KATAYEV, G.A.

Germanium ferrocyanide. Zhur.neorg.khim. 10 no.8:1953..1954  
Ag '65. (MIRA 19<sup>61</sup>)

1. Tomskiy gosudarstvennyy universitet imeni V.V.Kuybyshova,  
kafedra analiticheskoy khimii. Submitted January 7, 1965.

L 24788-65 ENT(m)/EWP(b)/EWP(t) IJP(c) JD/JG  
ACCESSION NR: AP4049617

S/0076/84/038/011/2726/2727

21  
20

B

AUTHOR: Vozniyova, L. N.; Malyuta, N. G.; Kataev, G. A.

TITLE: Kinetics of dissolving of gallium arsenide in sulfuric and phosphoric acid solutions of hydrogen peroxide

27

SOURCE: Zhurnal fizicheskoy chimi, v. 38, no. 11, 1964, 2725-2727

TOPIC TAGS: kinetics of dissolving, gallium arsenide, hydrogen peroxide, sulfuric acid, phosphoric acid

ABSTRACT: The authors have investigated the dissolving of gallium arsenide in hydrogen peroxide in the presence of sulfuric and phosphoric acids. They found that the rate of dissolution increases with an increase in the concentration of hydrogen peroxide up to a certain point, and then remains constant. The rate of dissolution increases with an increase of acid concentration up to about 4 M, and decreases at higher acid concentrations. The values of the apparent energy of

Card 1/2

L 24788-65

ACCESSION NR: AP4049617

4 figures and 1 table

ASSOCIATION: Tomskiy gosudarstvennyy universitet imeni V. V. Kuybysheva  
(Tomsk State University)

SUBMITTED: 10Dec63

ENCL: 00

SUB CODE: IC, GC

NO REF Sov: 002

OTHER: 000

Card 2/2

OSTROUKH, N. P. (Director of the Bogotov Veterinary Section), SUKHORUKOV,  
V. I. and MUSINOV, S. S. (Veterinary Medical Assistants) and VOZMITEL', V. M.  
(Veterinary Doctor, Belogorsk District, Crimean Oblast'). (Abstracted by  
NOSKOV, A. I.)

"Experimental prophylaxis for herpes tonsurans", 1960.....  
Veterinariya, vol. 39, no. 3, March 1962 pp. 27

VOZNA, A.G. [Vozna, A.H.]

Inhibitory relations between the components of a successive  
simultaneous complex conditioned stimulus. Vienyk. Kyiv.  
un. no.4. Ser. biol. no.2:113-118'6L (MIRA 16:6)  
(CONDITIONED RESPONSE)

VOZNA, A.I.

YEMCHENKO, A.I.; VOZNA, A.I.

Latent period in the conditioned reflex involved in a dog's coming from a sitting to a standing position [with summary in English].  
Fiziol.zhur.[Ukr.] 3 no.5:98-107 S-0 '57. (MIRA 11:1)

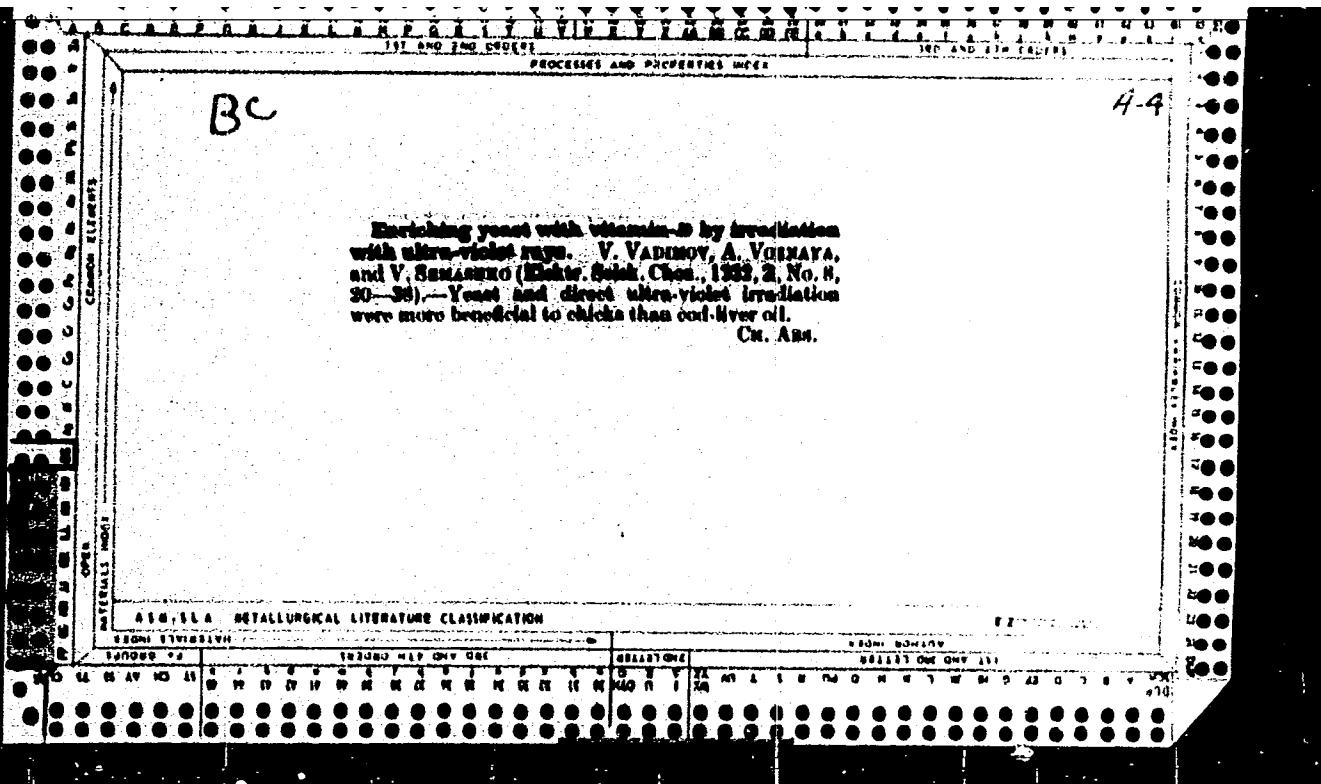
1. Kiivs'kiy derzhavniy universitet im. T.G.Shevchenka, kafedra fiziologii tvarin i lyudini.  
(CONDITIONED RESPONSE) (MOVEMENT, PSYCHOLOGY OF)

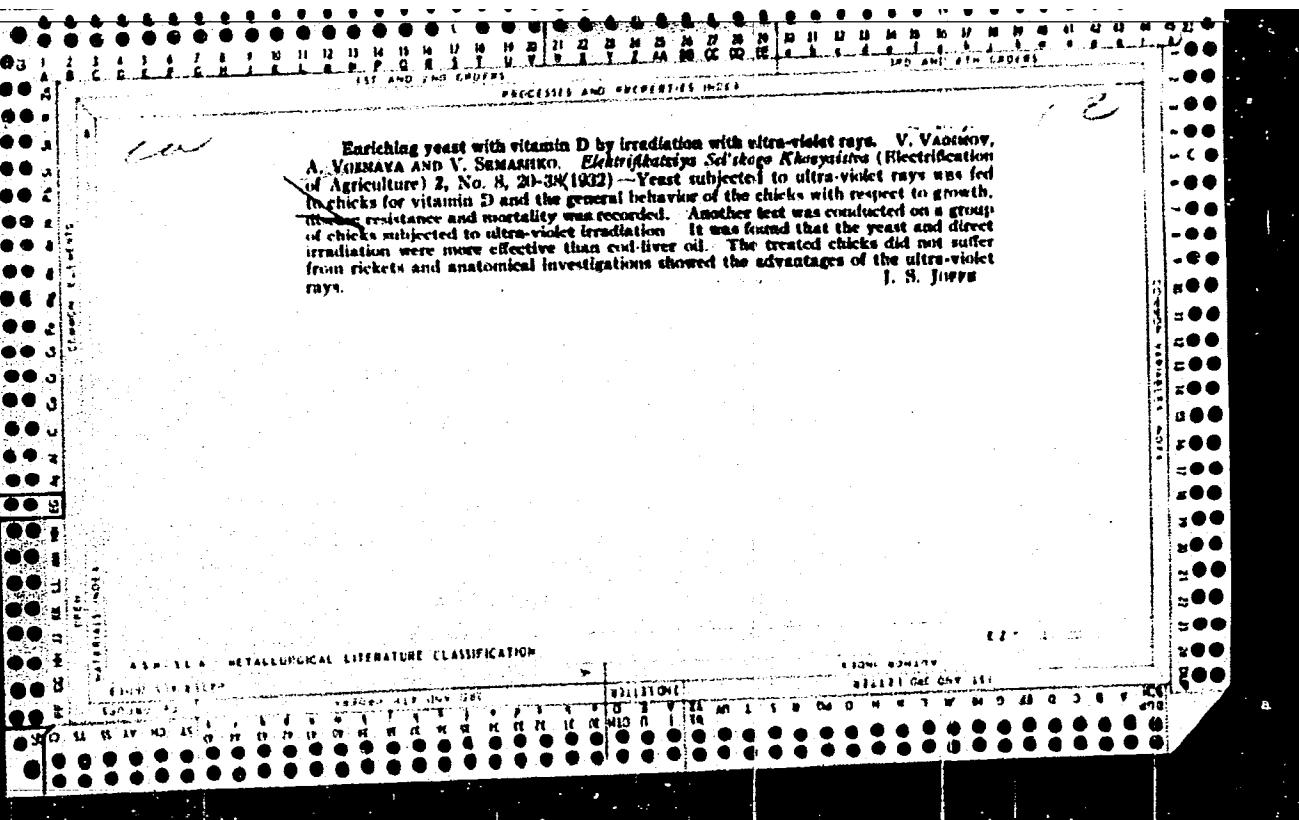
VOZNA, G. P.

TOMASHEVS'KA, O.G.; MANZON, V.D.; VOZNA, G.P.

Effect of micro-organisms on the solubility of phosphorus in fertilizers  
and on its assimilability by plants. [with summary in English]. Dop. AN  
USSR no.1:63-66 '57. (MLRA 10:4)

1. Institut fisiologii roslin ta agrokhimii AN URSR. Predstaviv akademik  
AN URSR F. A. Vlas'yuk.  
(Phosphates). (Soil micro-organisms)





VOZNAYA, A. I.

Interrelation of components of a simultaneous compound conditioned reflex. Zhur.vys.nerv.deiat. 6 no.2:269-276 Mr-Ap '56. (MIRA 9:8)

1. Otdel fiziologii vysshey nervnoy deyatel'nosti Instituta fiziologii zhivotnykh pri Kiyevskom gosuniversitete.

(REFLEX, CONDITIONED

simultaneous complex reflex in dogs, interrelation of components after eff. of single & complex stimuli)

VOZNAYA, A.I. [Vozna, A.I.]

Inhibitory interaction of components of a composite sequential-simultaneous conditioned stimulus. Fiziol. zhur. [Ukr] 4 no.4:568-569  
jl-Ag '58 (MIRA 11:10)

1. Institut fiziologii pri Kiyevskom gosudarstvennom universitete im.  
T.G. Shevchenko.  
(CONDITIONED RESPONSE)

YEMCHENKO, A.I.; VOZHAYA, A.I.

The latent period of conditioned motor reflexes and the duration of  
the run. Nauk zap, Kyiv, un, 16 no.17:73-92 '57.

(MIRA 13:2)

(CONDITIONED RESPONSE)

VOZNAYA, A.I. [Vosna, A.I.]; YEMCHENKO, A.I.

Establishing the type of nervous system in dogs by the secretory  
(feeding) and motor (running) methods. Nauk zap. Kiyv. un. 16 no.18:  
111-112 '57. (MIRA 13:2)

(NERVOUS SYSTEM)

VOZNAYA, A.I. [Vosna, A.I.]

Characteristics of simultaneous complex conditioned reflexes.

Report No.3. Nauk zap. Kyiv. un. 16 no.18:123-137 '57.  
(MIRA 13:2)

(CONDITIONED RESPONSE)

VOZNAYA, A. TS.

18 12/4771  
USER/Medicine - Cerebrospinal Fluid Jul/Aug 48  
Medicine - Brain Surgery

"The Value of Cerebrospinal Fluid Analysis in Determining the Recovery of Cases from Postoperative Cerebral Traumata," A. Ts. Voznaya, Clinical Lab, Inst of Neurosurg imeni Acad N. N. Burdenko, Acad Sci USSR, 6 3/4 pp

"Voprosy Neyrokhirurgii" Vol XII, No 4

Principal abnormalities in the fluid during the first few postoperative days are presence of blood, xanthochromia, increased albumin content, and pleocytosis. Describes gradual disappearance of these symptoms during convalescence.

13/49T97

VOZNAYA, A.Ts.

~~Effect of admixture of blood on the protein content and cytosis of the cerebrospinal fluid. Vopr.neirokhir. 15 no.2:49-51 Mar-Apr 1951. (CML 20:9)~~

1. Of the Institute of Neurosurgery imeni N.N. Burdenko (Director Prof. B.G. Yegorov, Corresponding Member of the Academy of Medical Sciences) of the Academy of Medical Sciences.

VORONAYA, A. TS.

Significance of complement fixation in diagnosis of cerebral cysticercosis. Vopr. neirokhir. 17 no.1:51-53 Jan-Feb 1953. (CIML 24:2)

1. Of the Clinical Laboratory of the Institute of Neurosurgery imeni Academician N. N. Burdenko (Director -- Prof. B. G. Yegorov, Corresponding Member AMS USSR), Academy of Medical Sciences USSR.

VOZNAYA, A.TS.

BURGMAN, G.P.; Voznaya, A.Ts., Nitrofanova, N.P.; Pershman, R.Ye.

Preoperative and postoperative cerebrospinal fluid in cerebellar  
medulloblastomas and its clinical significance. Vop.neirokhir.  
19 no.6:25-32 N-D '55. (MLRA 9:1)

1. Iz nauchno-issledovatel'skogo ordena Trudovogo Krasnogo Znameni  
instituta neyrokhirurgii imeni Akad. N.N.Burdenko Akademii  
Meditinskikh nauk SSSR.

(CEREBROSPINAL FLUID, in various diseases,  
medulloblastoma of cerebellum)

(MEDULLOBLASTOMA,  
cerebellum, CSF in)

(CEREBELLUM, neoplasms,  
medulloblastoma, CSF in)

VOZNAYA, A.TS.

Laboratory diagnosis of cysticercosis of the central nervous system.  
Vop.neurokhir. 20 no.6;35-37 N-D '56. (MLRA 10:2)

1. Iz Nauchno-issledovatel'skogo ordena Trudovogo Krasnogo Znameni  
instituta neurokhirurgii imeni akad. N.N.Burdenko Akademii meditsinskikh nauk SSSR.

(BRAIN DISEASES, diagnosis,

cysticercosis (Rus))

(CYSTICERCOSIS, diagnosis,

brain (Rus))

VOZNAYA, A.T.

BURGAN, G.P.; VOZNAYA, A.TS.; MITROFANOVA, N.P.

Cerebrospinal fluid in the early stages of traumatic disease of the brain following closed injuries of the skull. Vop.neirokhir. 21 no.1:13-16 Ja-F '57. (MIRA 10:3)

1. Nauchno-issledovatel'skiy ordena Trudovogo Krasnogo znameni institut neyrckhirurgii imeni akad. N.N.Burdenko Akademii meditsinskikh nauk SSSR.

(BRAIN, wounds and injuries

(CSF in early stages)

(CEREBROSPINAL FLUID, in various dis.

brain inj. in early stages)

L 31214-66 EWT(m)/EWP(j) RM  
ACC NR: AP6022792

SOURCE CODE: UR/0079/66/036/002/0244/0254

AUTHOR: Razumova, N. A.; Petrov, A. A.; Voznesenskaya, A. Kh.; Novitskii, K. I.

ORG: Leningrad Technological Institute im. Lensoviet (Leningradskiy tekhnologicheskiy institut)

TITLE: Phosphorus-containing heterocycles. VII. Study of the condensation of chlorides of glycolphosphorous acids with alpha,beta-unsaturated aldehydes, ketones, acids, and azines

SOURCE: Zhurnal obshchey khimii, v. 36, no. 2, 1966, 244-254

TOPIC TAGS: heterocyclic base compound, organic phosphorous compound, condensation reaction, organic azine compound, glycol, chlorinated organic compound, aldehyde, ketone, acrylic acid, substituent, oligomer, polymerization, IR spectrum, spectrum analysis, chemical synthesis

ABSTRACT: The reactions of certain chlorides of glycolphosphorous acids with benzalacetone, acrolein, crotonaldehyde, acrylic acid, acetalazine, and acetonazine were investigated. The condensation of chlorides of ethyleneglycol-, propyleneglycol-, and 1,3-butanediolphosphorous acids with benzalacetone results in the formation of the corresponding substituted 3-oxaphospholine-1-oxides. In the condensation of the chloride of ethyleneglycolphosphorous acid with acrolein and crotonaldehyde, oligomers were obtained, formed by the original addition of the chloride to the carboxyl group. Treatment of these oligomers with  $\text{PCl}_5$  yielded the dichloride of beta-chloroethylphosphinic acid.

UDC: 546.183 + 547.38 + 547.39 + 547.288.3

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Card 1/2

L 31214-66

ACC NR: AP6022792

0

acid. Condensation of the same acid chloride with acrylic acid yielded an oligomer formed with original closing of the five-membered ring, followed by polymerization. Treatment of the oligomer with  $\text{PCl}_5$  led to the chloride of dichlorophosphonepropionic acid. The reaction of chlorides of ethyleneglycol-, propyleneglycol-, and 1,3-butanediolphosphorous acids with acetaldazine and acetonazine yielded the corresponding substituted 1-phosphodiazoline-4-oxides, which, under the action of  $\text{PCl}_5$ , form acid chlorides, which are converted to crystalline anilides under the action of aniline. The infrared and nuclear magnetic resonance spectra of the reaction products are discussed. Orig. art. has: 3 figures and 5 tables. [JPRS]

SUB CODE: 07 / SUBM DATE: 23Mar64 / ORIG REF: 007 / OTH REF: 002

Card 2/2 BLG

L 24297-66 EWT(m)/ENP(y) RM

ACC NR: AP6009800

SOURCE CODE: UR/0062/66/000/002/0348/0350

AUTHOR: Shuykin, N. I.; Voznesenskaya, I. I.ORG: Institute of Organic Chemistry im. N. D. Zelinskiy, Academy of Sciences, SSSR (Institut organicheskoy khimii Akademii nauk SSSR)TITLE: Conversion of dicyclohexyl and dicyclohexylmethane on Pt- and Pd-alumina catalysts under catalytic cracking conditionsSOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 2, 1966, 348-350TOPIC TAGS: aromatic hydrocarbon, dehydrogenation, catalytic cracking, industrial catalyst

ABSTRACT: The conversion of dicyclohexyl (I) and dicyclohexylmethane (II) was investigated under catalytic cracking conditions--on 0.5% Pt/Al<sub>2</sub>O<sub>3</sub> or 0.5% Pd/Al<sub>2</sub>O<sub>3</sub> catalysts at 450°, 30 atm hydrogen pressure, space velocity of 0.3 hr<sup>-1</sup>, H:C molar ratio = 5:1. The bicyclic molecules were dehydrogenated under these conditions. There was also rupture of the C-C bonds between the rings, and partial isomerization of the 6-membered ring to methylcyclopentane. 79-96% of I was dehydrogenated on the Pt catalyst to form diphenyl and phenylcyclohexane.

Card 1/2

UDC: 542.97

L 24297-66

ACC NR: AP6009800

but only 12-25% reacted on the Pd catalyst. Dehydrogenation of II to phenylcyclohexylmethane, diphenylmethane and fluorene was more difficult. Dehydrogenation was significantly less at atmospheric pressure. There was no dehydrogenation on alumina alone. Orig. art. has: 2 tables.

SUB CODE: 07/ SUBM DATE: 23Jun65/ ORIG REF: 004/ OTH REF: 004

Card 2/2 F)

BURGMAN, G.P.; BIRYUKOVA, L.F.; VOZNAYA, A.TS.

Pathology of the ventricular fluid during prolonged drainage.  
Probl. sovr. neirokhir. 2:118-123'57. (MIRA 16:6)  
(CEREBROSPINAL FLUID) (DRAINAGE, SURGICAL)

VOZNAYA, A.TS.

Laboratory diagnosis of cysticercosis of the central nervous system.  
Trudy Gel'm. lab. 9:65-66 '59. (MIRA 13:3)  
(TAPEWORMS) (BRAIN--DISEASES)

GRIGOROV, O.N.; VOZNAYA, E.Ye.

Electrophoresis of suspensions and sols in various gels relevant  
to their rheological properties. Koll. zhur. 27 no.1:24-29 Ja-F  
'65. (MIRA 18:3)

1. Leningradskiy universitet imeni Zhdanova.

KASTAL'SKIY, Aleksandr Aleksandrovich, doktor tekhn. nauk, prof.; MINTS, Daniil Maksimovich, doktor tekhn.nauk, prof. Prinimali uchastiye: MIKHAYLOV, V.A., kand. tekhn. nauk; NOVAKOVSKIY, N.S.; ABRAMOV, N.N., doktor tekhn. nauk, prof., retsenzent; NIKIFOROV, G.N., kand. tekhn. nauk, dots., retsenzent; PREGER, Ye.A., retsenzent; BULYGIN, A.K., retsenzent; LIPKIN, Ye.V., retsenzent; VOZNAYA, N.F., kand. khim. nauk, retsenzent; BELOV, A.N., dots., retsenzent; AGRANONIK, Ye.Z., kand. tekhn. nauk, retsenzent; NOVIKOV, P.V., inzh., retsenzent; SHVARTS, R.B., inzh., retsenzent; KONYUSHKOV, A.M., kand. tekhn.nauk, nauchnyy red.; NIKOLAEVA, T.D., red. izd-va; GOROKHOVA, S.S., tekhn. red.

[Water treatments for drinking and for industrial uses] Podgotovka vody dlja pit'evogo i promyshlennogo vodosnabzheniya. Moskva, Gos.izd-vo "Vysshiaia shkola," 1962. 557 p.

(MIRA 16:1)

1. Kafedra vodosnabzheniya Leningradskogo inzhenerno-stroitel'nogo instituta (for Nikiforov, Preger, Bulygin, Lipkin, Voznaya, Belov, Agranonik).

(Water--Purification)

VOZNAYA, N. F.

"Investigating Physicochemical Phenomena During Methane Decomposition  
of Urban Sewage Waters." Cand Chem Sci, Leningrad Technological Inst,  
Leningrad 1954. (RZhKhim, No 3, Feb 55)

SO: Sum. No. 631, 26 Aug 55 - Survey of Scientific nad Technical  
Dissertation Defended at USSR Higher Educational Institutions.  
(14)

TANSKIY, V.V.; KOYENMAN, G.P.; VOZnenko, G.V.; GORDONOVa, S.M.; KUGUSHEV, I.N.; GENIN, M.Ya; VISHNEVSKIY, A.V., red.; AVINOVITSKIY, I.Ya., inzh. nauchn. red.; GORCHAKOV, A.V., otv. red.; RASKIN, Yu.A., red.

[Plastics in construction] Plastmassy v stroitel'stve; tematicheskii sbornik. Moskva, TSentr.biuro tekhn.informatsii tekhn. upravleniya, 1960. 156 p.

1. Chlen-korrespondent Akademii stroitel'stva i arkhitektury SSSR (for Vishnevskiy). 2. TSentral'noye byuro tekhnicheskoy informatsii (for Raskin).

(Plastics) (Building materials)

VOZNESENKO, V.V., polkovnik; UTKIN, G.M., podpolkovnik; ROZHANOV, I.G.,  
podpolkovnik, redaktor; KALACHEV, S.G., tekhnicheskij redaktor.

[Liberation of Kiev (Autumn 1943)] Osvobozhdenie Kieva; osen' 1943 g.  
Moskva, Voennoe izd-vo Ministerstva obrony SSSR, 1953. 173 p. [Micro-  
film]  
(Kiev--World War, 1939-1945--Fiction)

PETROV, A.A.; RAZUMOVA, N.A.; VOZNESENSKAYA, A.Kh.

Condensation of acid chlorides of trivalent phosphorus with  
heteroatomic conjugated systems. Zhur. ob. khim. 34 no.10:  
3512-3513 O '64. (MIRA 17:11)

1. Leningradskiy tekhnologicheskiy institut im. Lensoveta.

LAPSHTIN, M.I., kand.khim.nauk; VOZNESENSKAYA, A.M., inzh.

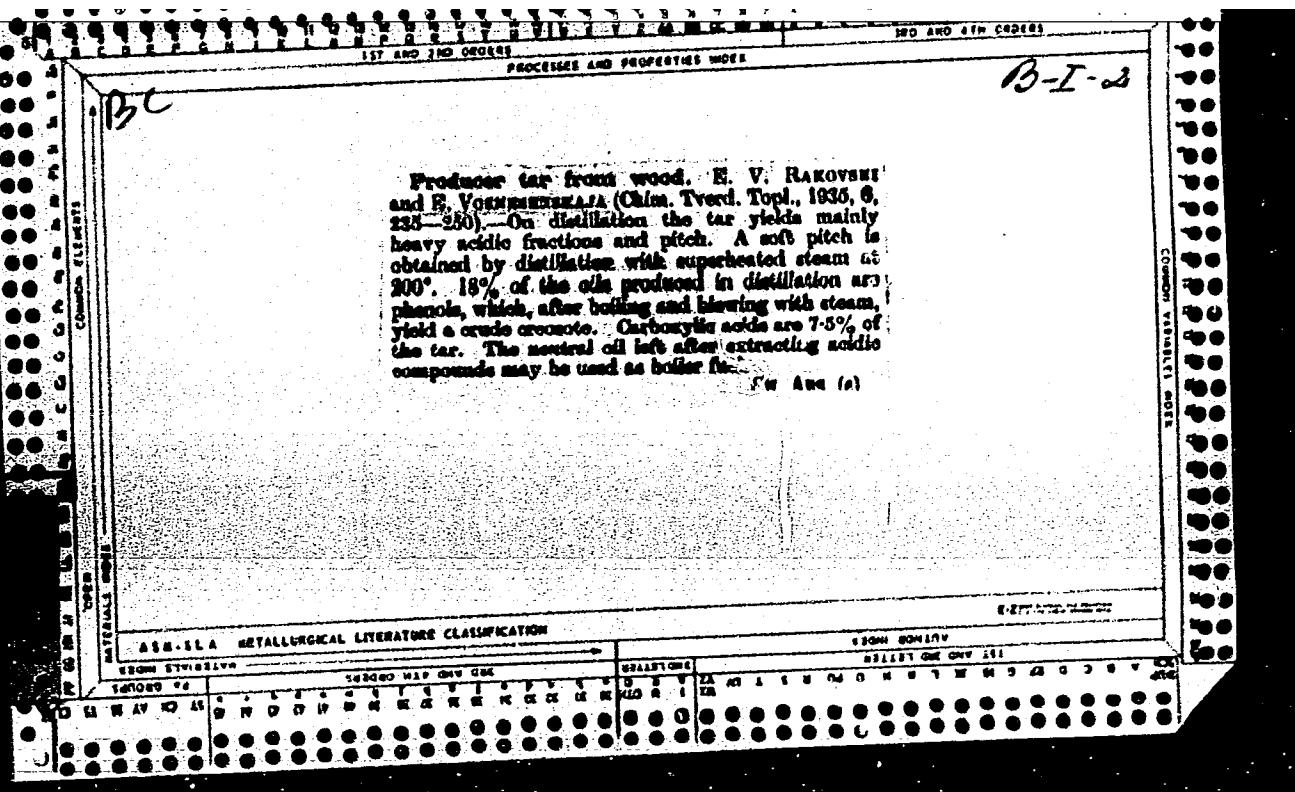
Elimination of iron corrosion products from condensate by means of  
a magnetite filter. Teploenergetika 12 no.10:26-28 O '65.

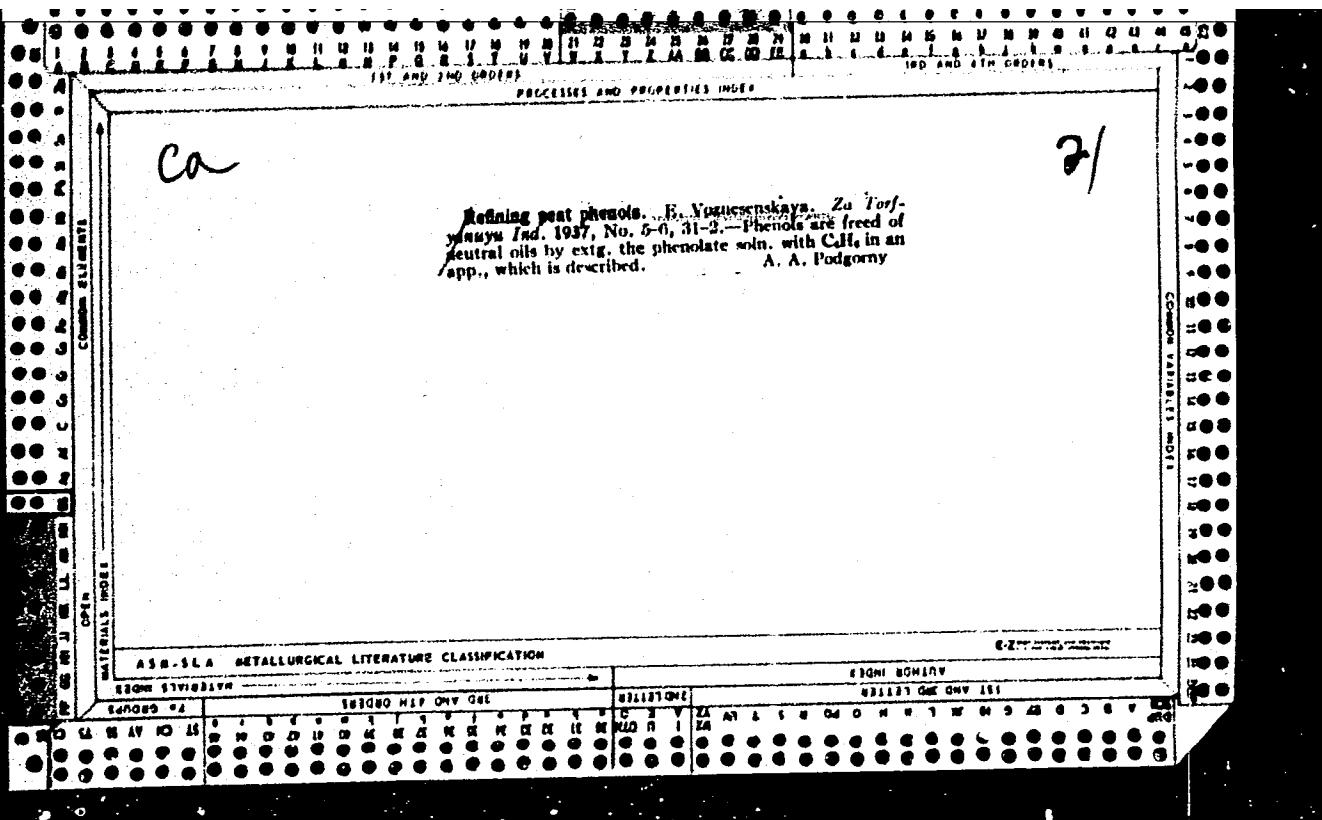
(MIRA 18:10)

1. Moskovskiy energeticheskiy institut.

VOZNESENSKAYA, E.

E.V..RAKOVSKII, Khim. Tverdogo Topliva 6 (1935), 235-50





VOZNESEN'SKAYA, G.I.

Oxidation processes in various forms of endocarditis. Mat.po  
obm.nauch.inform. no.2:11-16 '58. (MIRA 13:6)

1. Iz otdela funktsional'noy diagnostiki (zav. - prof. A.A.  
Ayzenberg) Ukrainskogo nauchno-issledovatel'skogo instituta  
klinicheskoy meditsiny, Kiyev.  
(OXIDATION, PHYSIOLOGICAL) (ENDOCARDITIS)

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961210002-9

VOZNESENSKAYA, Ye. V. Cand. Chem. Sci.

Dissertation: "Paraffins from the Petroleums of the Second Baku." Central  
Inst of Aviation Fuels and Oils -- TSIATIM, 23 Apr 47.

SO: Vechernaya Moskva, Apr, 1947 (Project #17836)

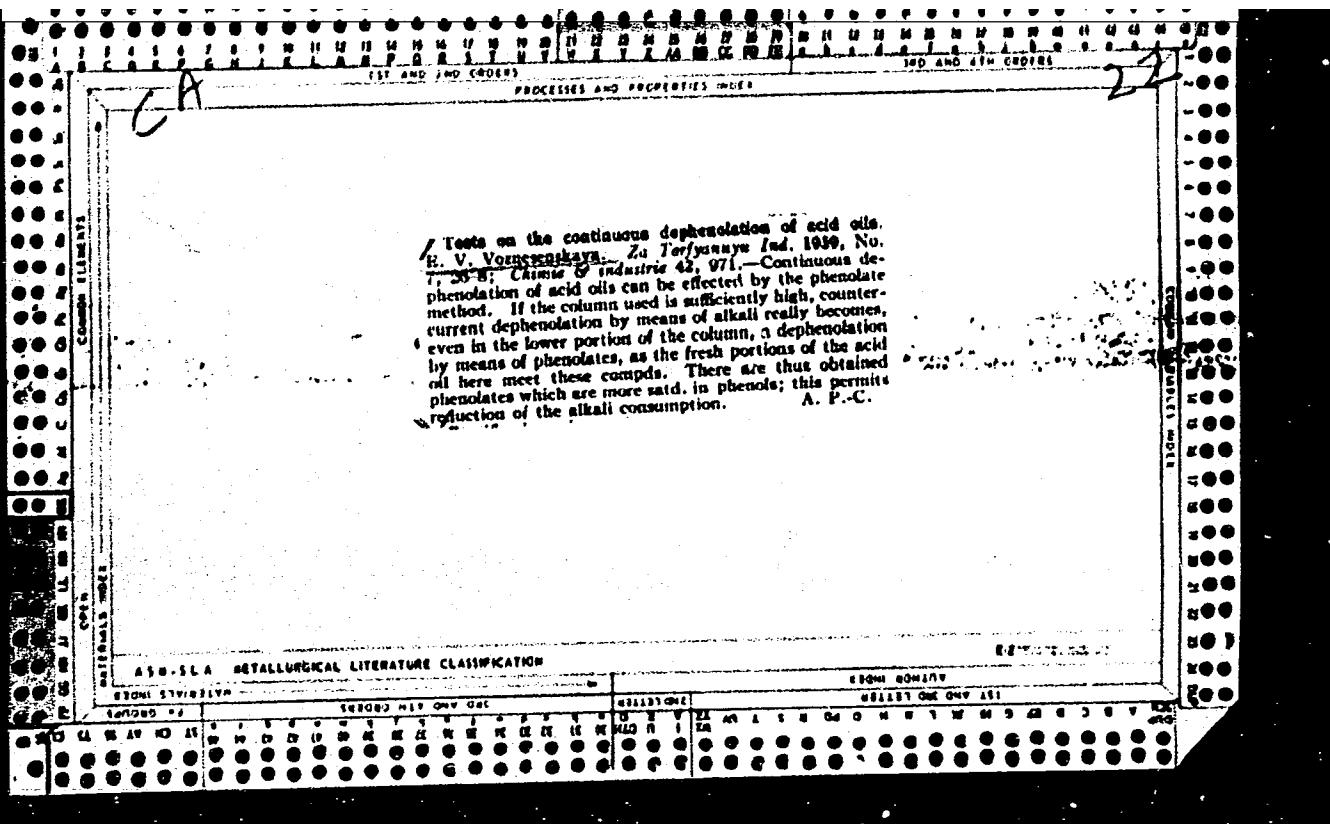
APPROVED FOR RELEASE: 09/01/2001

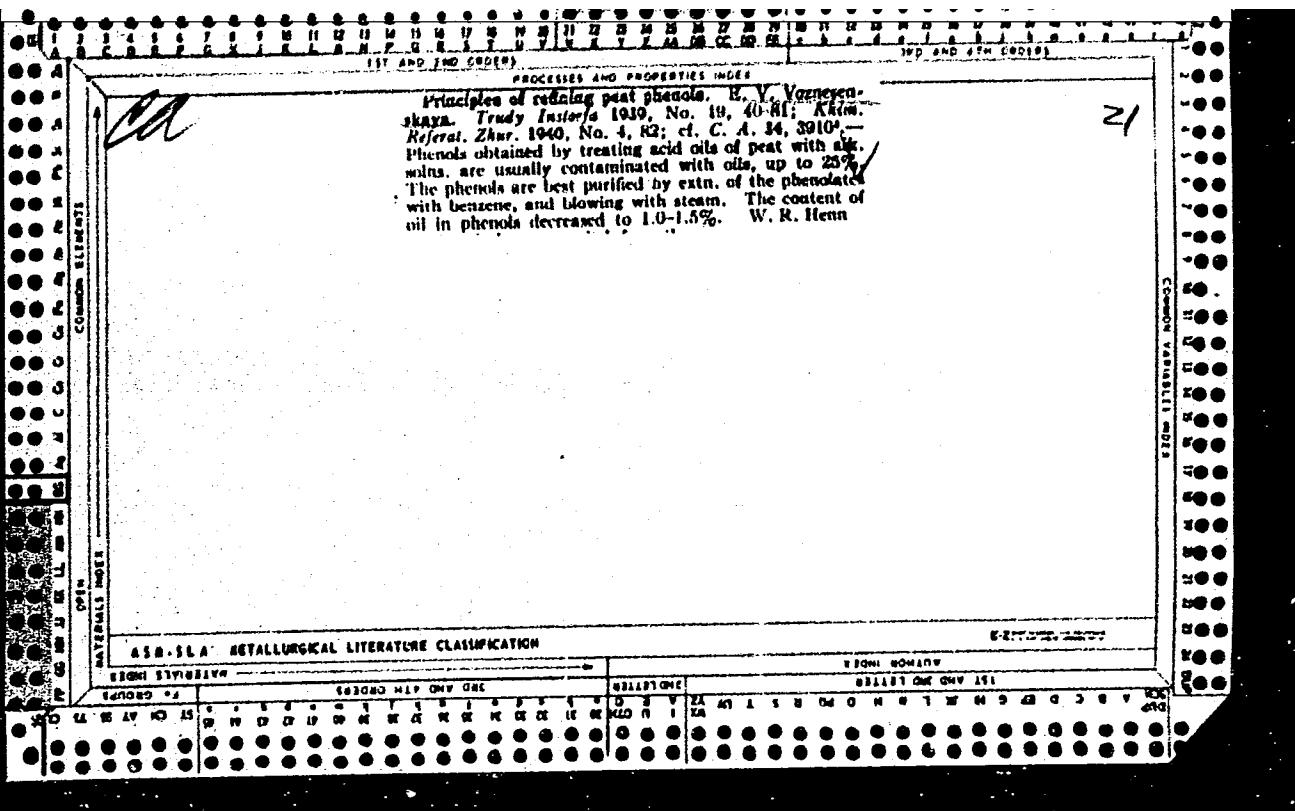
CIA-RDP86-00513R001961210002-9"

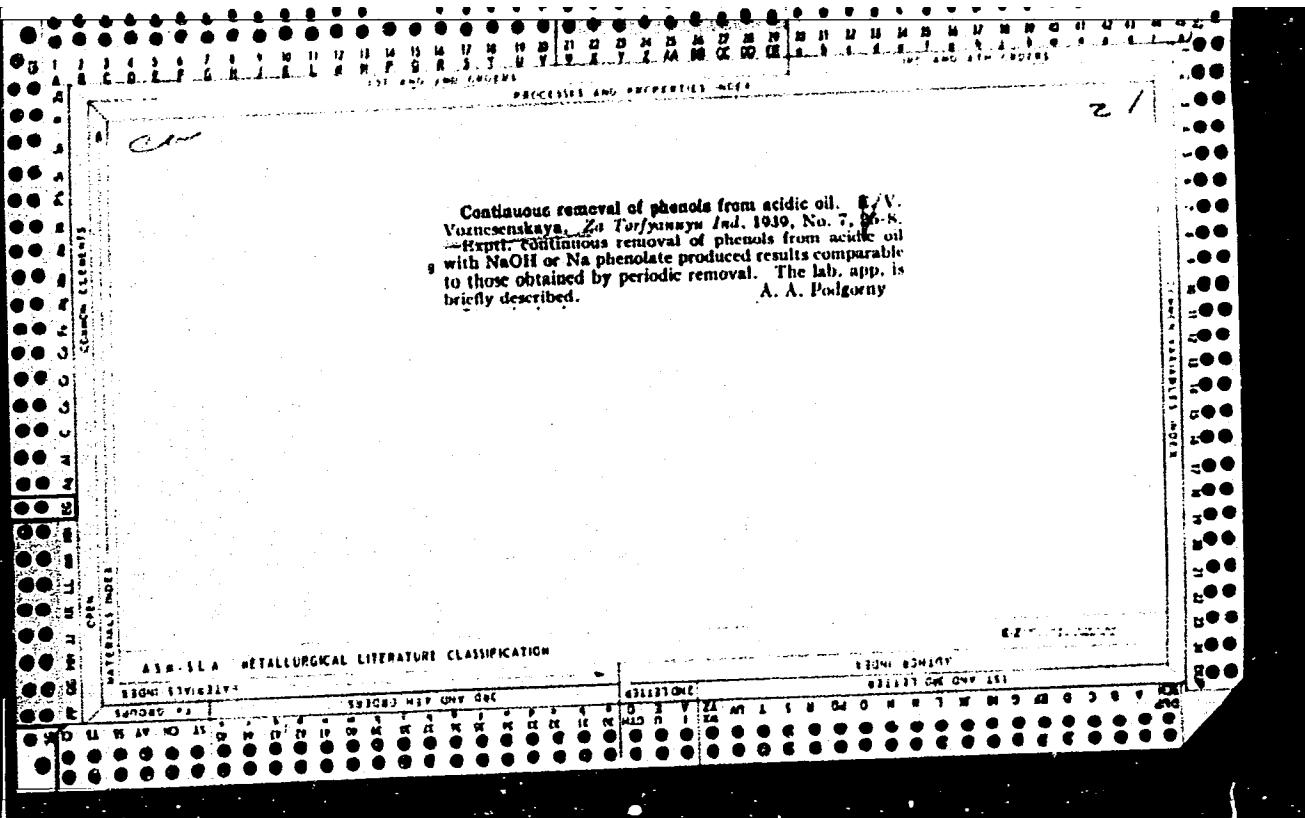
VOZNESENSKAYA, E. V.

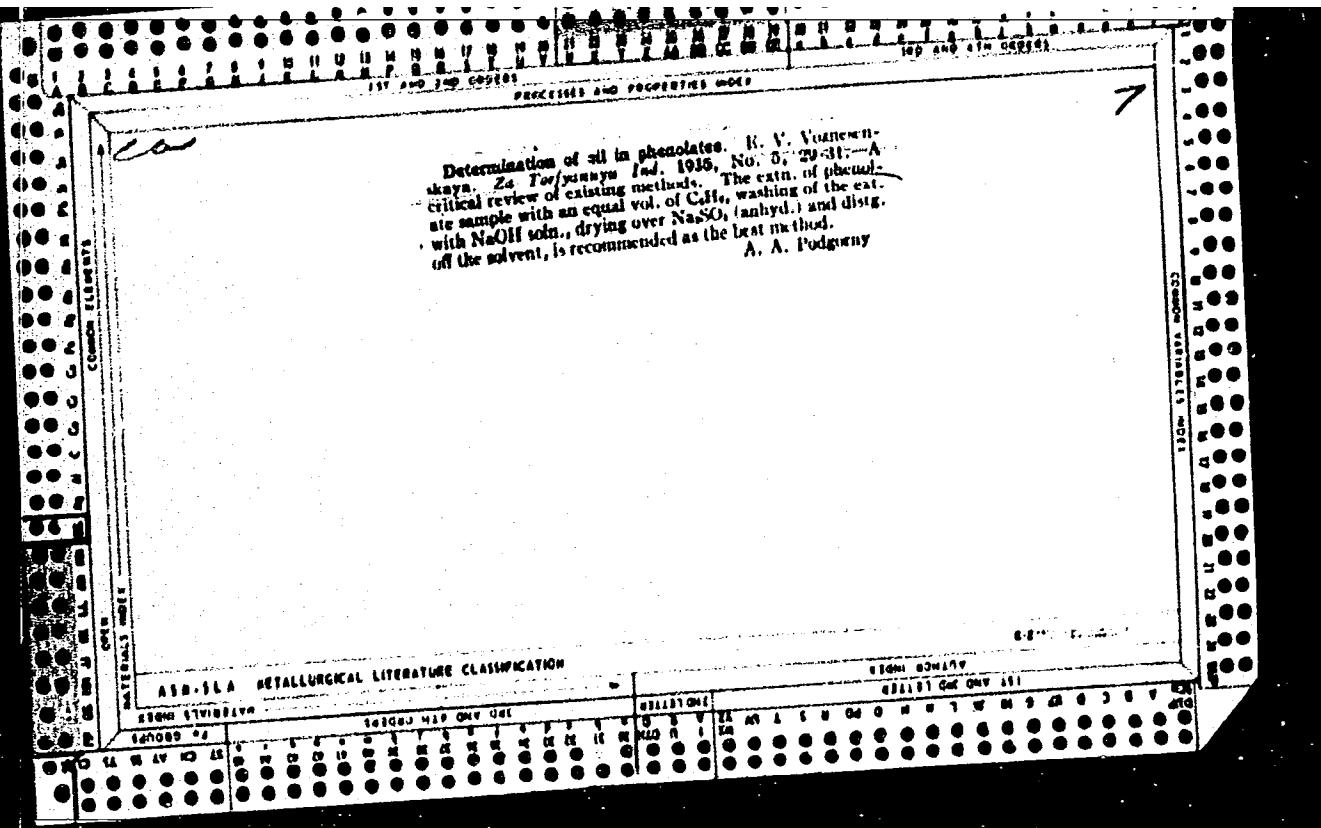
Zherdeva, P. G. and Voznesenskaya, E. V. "Use of deasphaltization for obtaining ceresin," Neft. Khoz-vo, 1946, No. 11, p. 58-60

SO: U-2888, Letopis Zhurnal'nykh Statey, No. 1, 1949









CA

Use of deasphalting to produce ceresin. I. G. Zhdanov and B. V. Voronczenkaya. *Neftegaz. Khim.* 26, No. 11, 58-60 (1966). The propane-propylene fraction of cracked gases was used for deasphalting waxy deposit removed from production tubing in wells in the Ishimbayev field. The deasphalting was conducted in an autoclave at 50-60° with 8 vols. of diluent per vol. of the raw material. The deasphalted product has a bright-green color in reflected light, and a pale orange when melted. It m. 51° and contains 35% wax m. 63°, 2.1% Conradson carbon, and 17.0% resins by the silica gel method of Marcusson, compared to 6.64% carbon and 33% resins in the original material. No difficulties were encountered in subsequent decoking and percolation with clay. The final product consists of pure white paraffin and ceresin. Equally good results were obtained in deasphalting crude ozocerate from the Cheleken island. Very hard asphalt is obtained as a by-product. Bruno C. Metzner

22

## AS-86A METALLURGICAL LITERATURE CLASSIFICATION

10006744

SECOND MARY DAY ONE

CLASSIFICATION

RIGHT NUMBER

00001 GM CHV 151

VOZNESENSKAYA, F.M.

Materials on the hygienic evaluation of clothing for children  
of preschool age. Uch.zap. Mosk. nauch.-issl. inst. san. i gig.  
no.2:75-77 '59  
(MIRA 16:11)

1. Leningradskiy pediatricheskiy meditsinskiy institut.

\*

VOZNESENSKAYA, F.M., kand.med.nauk

Temperature regimen of kindergartens. Peidatriia no.7:29-33 '62.  
(MIRA 15:12)

1. Iz kafedry obshchey gigiyeny (zav. - prof. M.K. Markaryants)  
Leningradskogo pediatriceskogo meditsinskogo instituta.  
(KINDERGARTENS) (SCHOOL HYGIENE)

VOZNESENSKAYA, F. M.

VOSNESENSKAYS, F. M.--"On the Question of the Self-Cleaning of Open-Water Reservoirs  
Polluted by Industrial and Residential Waste, "(Dissertation for Degree in  
Science and Engineering Defended at USSR Higher Educational Institutions.)  
Leningrad State Podiatric Medical Inst., Chair of General Hygiene, Leningrad, 1955

SO: Knizhnaya Letopis', No 25, 18 Jun 55

\* For Degree of Candidate in Medical Sciences

L 05789-67 EWT(m)/EWP(j) TJP(c) RM

ACC NR: AP6031641 /A) SOURCE CODE: UR/0240/66/000/009/0104/0105

25  
B

AUTHOR: Voznesenskaya, F. M. (Candidate of medical sciences)

ORG: Department of General Sanitation, Leningrad Pediatric Medical Institute  
(Kafedra obshchey gigiyeny Leningradskogo pediatricheskogo instituta)

TITLE: Capacity of some synthetic fabrics for passing the UV spectrum 15

SOURCE: Gigiyena i sanitariya, no. 9, 1966, 104-105

TOPIC TAGS: synthetic fiber, fabric, UV spectrum, transparence, fabric transparence

ABSTRACT: An attempt has been made to investigate the capability of fabrics made of synthetic fibers to pass UV rays. Natural solar radiation and the radiation of the EUV-15 erythematous lamp were used as sources with a radiation spectrum of 280—380 m $\mu$ . The capability of fabrics to pass UV rays was evaluated by a UV-meter and by the biological method of erythema formation on man's skin. A total of twenty-eight fabrics were tested, twenty of which were of synthetic fibers. Caprone fabric was found to be the most transparent, caprone in mixture with artificial silk were less transparent, while fabrics of nitron and acetochlorine proved to be almost nontransparent.

Cap 1/1 SUB CODE: 06/SUBM DATE: 22Feb66/ 15 UDC: 613.481:613.165:6

VOZNESENSKAYA, G. A., Cand Med Sci (diss) -- "Intraosteal fixation of diaphysal bone breaks of the forearm". Moscow, 1960. 12 pp (Min Health RSFSR, Moscow Med Stomatological Inst) (KL, No 14, 1960, 136)

VOZNESEN'SKAYA, G.A., mladshiy nauchnyy sotrudnik

Medullary nailing in fractures of the forearm. Ortop.travm. i  
protez. 20 no.1:30-34 Ja '59. (MIRA 12:3)

1. Iz 2-y khirurgicheskoy kliniki (rukovoditel' - prof. Ya.G.  
Dubrov) Moskovskogo oblastnogo nauchno-issledovatel'skogo klini-  
cheskogo instituta (dir. - P.M. Leonenko).

(FOREARM, fract.  
intraosseous fixation with pins (Rus))

VOZNESENKAYA, G.A., kand.med.nauk; BOZIYAN, Kh.A., vrach (Stepanakert);  
SILYANOVA, V.A., kand.med.nauk; GRIGOROVSKIY, I.M., prof.;  
KUNDIYEV, Yu.I., kand.med.nauk (Kiev); MARSHAK, M.S., prof.;  
ZALIOPO, M.N.; DONETSKAYA, L.M.; ORGANOVA, M.G.

Health hints. Zdorov'e 9 no.3:30-31 Mr '63.  
(HYGIENE)

(MIRA 16:5)

~~VOZNESEN'SKAYA, G.A.~~

Congenital pseudarthrosis of the leg. Khirurgija, Moskva no.8:34-40  
Aug 1953. (CLML 25:4)

1. Of the Second Surgical Clinic (Head -- Prof. F. M. Plotkin), Moscow  
Oblast Scientific-Research Clinical Institute imeni M. F. Vladimirs'kiy.

~~VOZNESEN'SKAYA VUCHOVSKAYA, G. I.~~ Cand. Medic. Sci. (diss) "On  
~~APPROVED FOR RELEASE: 09/01/2001~~ CIA-RDP86-00513R001961210002-9"  
Condition of Oxidizing Processes in Various Forms of Endocardi-  
tis and Poor Blood Circulation," Kiev, 1961, 12 pp. (Kiev Med.  
Inst.) 250 copies (KL Supp 12-61, 284).

VOZNESENSKAYA, G.I.

Changes in vacat 0 under the influence of oxygen therapy. Vrach.  
deleno no.12:138-139 D '60. (MIRA 14:1)

1. Kafedra terapii II (zav. - prof. A.L.Mikhnev) Kiyevskogo instituta  
usovershenstvovaniya vrachey.  
(OXYGEN—THERAPEUTIC USE) (BLOOD—EXAMINATION)  
(URINE—ANALYSIS AND PATHOLOGY) (CARDIOVASCULAR SYSTEM—DISEASES)

USSR/Human and Animal Physiology (Normal and Pathological).  
Blood Circulation. General.

Abs Jour: Ref Zhur-Biol., No 17, 1958, 79515.

Author : Voznesenskaya, G.I.

Inst :

Title : Changes of the Oxygen Tension in Cardio-Vascular  
Patients With Insufficient Blood Circulation.

Orig Pub: Materialy po obmeny nauchn. inform. Ukr. n.-i. in-t  
klinich. meditsiny, 1957, vyp. 1, 93-94.

Abstract: No abstract.

Card : 1/1

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961210002-9

VOZNESENNSKAYA, I.A., kandidat meditsinskikh nauk.

Papilloma of the larynx. Vest. oto-rin. 17 no.5:83 8-0 '55.  
(MIRA 9:2)

(LARYNX--TUMORS)

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961210002-9"

*2*

New methods of volume analysis of solid and liquid systems. O. M. Voznesenskaya and I. I. Zelavskii (Chem. Technol. Inst., Vinograd). *J. Gen. Chem. (U.S.S.R.)* 16, 1189-93 (1946) (in Russian). --In the analysis of systems by the change of vol. in terms of compn., it is found convenient to define an "atomic excess."  $A = 1000 \frac{\Delta V}{M}$  where  $n$  = no. of atoms in the mol.  $\rho$  = sp. gr.,  $M$  = mol. wt.;  $AN$ , where  $N$  = Avogadro's no. gives the no. of atoms per  $\mu^3$  for real solid bodies.  $A$  varies from 14 to 316. In binary solid or liquid systems, if the compn. is expressed in vol. %,  $A$  of the mixt. is a linear function of compn.; deviations therefrom always indicate chem. interaction, the degree of which is measured by  $\Delta A$ , the excess of the actual  $A$  of the system over that following from straight additivity. In numerous in-

stances,  $\Delta A$  has a max. at the compn. corresponding to a well-defined chem. compnd., examples:  $\text{PbNHMe}_2\text{Cl}_2\text{CSN}$ ,  $\text{Na-Hg}$  (at  $\text{NaHg}$ ); in  $\text{FeS-FeS}_2$ ,  $\Delta A$  is neg., max. at the compn.  $\text{FeS}_2$  corresponding approx. to natural pyrrhotite. In various binary sq. systems,  $\Delta A$  was found to have maxima at:  $\text{EtOH.2H}_2\text{O}$ ,  $2\text{HF.H}_2\text{O}$ ,  $\text{H}_2\text{O.2H}_2\text{O}$ ,  $\text{HClO}_4.2\text{H}_2\text{O}$ ,  $\text{NaH}_2\text{O}_2$ ,  $\text{H}_2\text{SO}_4.2\text{H}_2\text{O}$  (at 20, 40, and 60°). In  $\text{H}_2\text{SO}_4\text{-SO}_3$ , there is a max. at  $\text{H}_2\text{SO}_4$ . Plots of  $A$  of solns. against the no.  $\tau$  of solvent mols. (per 1 mol. of solute) show a steady rise (or fall) of  $A$  with  $\tau$ , mostly approaching asymptotically the value for the pure solvent but sometimes crossing it; for solid hydrates ( $\text{Na}_2\text{B}_4\text{O}_7$ ,  $\text{Na}_2\text{HPO}_4$ ,  $\text{KCr}(\text{SO}_4)_2$ ,  $\text{LiI}$ ) and amides ( $\text{AlCl}_3$ ,  $\text{AlBr}_3$ ,  $\text{AlI}_3$ ,  $\text{InCl}_3$ ,  $\text{InBr}_3$ ,  $\text{CoCl}_3$ ),  $A$  rises steadily and regularly with the no. of  $\text{H}_2\text{O}$  or  $\text{NaI}$  mols. From the study of the  $A$ -compn. diagrams, literature data of sp. gr. of solids were in a few cases recognized as erroneous and the correct values predicted and later confirmed; thus,  $\text{Na}_2\text{CO}_3.\text{H}_2\text{O}$ ,  $A$  102, d. 2.23 (instead of 1.53);  $\text{CuSO}_4.\text{H}_2\text{O}$ ,  $A$  153, d. 2.08 (1.02);  $\text{NaSO}_4.\text{H}_2\text{O}$ ,  $A$  160, d. 2.69 (1.96). N. Thor

## A.I.O.-I.A. METALLURGICAL LITERATURE CLASSIFICATION

I. IRON HYDRIDES		II. IRON METAL AND OXIDE		III. ALUMINUM	
1.0000	0.0	1.0000	0.0	1.0000	0.0
0.0000	1.0	0.0000	1.0	0.0000	1.0
0.0000	0.0	0.0000	0.0	0.0000	0.0
0.0000	0.0	0.0000	0.0	0.0000	0.0

IV. IRON MINERALS		V. IRON ALLOYS		VI. IRON ALUMINUM	
1.0000	0.0	1.0000	0.0	1.0000	0.0
0.0000	1.0	0.0000	1.0	0.0000	1.0
0.0000	0.0	0.0000	0.0	0.0000	0.0
0.0000	0.0	0.0000	0.0	0.0000	0.0

VOZNESENSKAYA, I.A., kandidat meditsinskikh nauk

Osteofibroma of the mastoid process. Vest.oto-rin. 17 no.2:72 Mr-  
Ap '55. (MLRA 8:7)

1. Iz Nauchno-issledovatel'skogo instituta ukha, gorla i nosa Minis-  
terstva zdravookhraneniya RSFSR (dir. zasluzhennyy deyatel' nauki  
prof. V.K.Trutnev).

(MASTOID, neoplasms,  
osteofibroma)

(OSTHOMA,  
mastoid process)

VOZNESENSKAYA, I.A.

Clinical aspects and treatment of papilloma of the larynx.  
Trudy gos.nauch.-issl.inst.ukha, gorla i nosa. 6:379-386  
'55. (MIRA 12:10)

1. Iz klinicheskogo otdeleniya (zav.-prof. A.A.Atkarskaya)  
Gosudarstvennogo nauchno-issledovatel'skogo instituta ukha,  
gorla i nosa. (LARYNX--TUMORS)

VOZNESENSKAYA, I.A.; DODASHVILI, M.I.

Early diagnosis of cardiovascular diseases of tonsillar origin.  
Trudy gos. nauch.-issl. inst. ukha, gorla i nosa no.11:98-106  
'59. (MIRA 15:6)

1. Iz klinicheskogo otdeleniya Gosudarstvennogo nauchno-  
issledovatel'skogo instituta ukha, gorla i nosa.  
(CARDIOVASCULAR SYSTEM--DISEASES)  
(TONSILS--DISEASES)

VOZNESENSKAYA, Inna Aleksandrovna

[Papillomas of the larynx] Papillomy gortani. Moskva, Medgiz,  
1958. 141 p. (MIRA 12;4)  
(LARYNX--TUMORS)

TUROVA-POLYAK, M.B.; SOSNINA, I.Ye.; VOZNESEESKAYA, L.L.; YUDKINA, T.P.

Isomerization of polymethylene hydrocarbons under the effect of aluminum chloride. Part 22: Isomerization of bicyclopentyl-methane. Zhur. ob.khim. 29 no.1:97-101 Ja '59. (MIRA 12:4)

1. Moskovskiy gosudarstvennyy universitet.  
(Bicyclopentyl) (Isomerization)

BOGDANOVA, O.K.; SHCHEGLOVA, A.P.; BALANDIN, A.A.; VOZNESENSKAYA, I.I.

Catalytic dehydrogenation of n-pentenes. Izv.AN SSSR Otd.khim.  
nauk no.4:578-582 Ap '61. (MIRA 14:4)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.  
(Pentene) (Dehydrogenation)

## AUTHORS:

Turova-Polyak, M. B., Sosnina, I. Ye., SOV/79-29-1-22/74  
Voznesenskaya, I. I., Yudkina, T. F.

## TITLE:

Isomerization of the Polymethylene Hydrocarbons Under the Influence of Aluminum Chloride (Izomerizatsiya polimetilencovykh uglevodorodov pod vliyaniem khloristogo alyuminiya) XXII. Isomerization of the Dicyclopentyl Methane (XXII. Izomerizatsiya ditsiklopentilmetana)

## PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 1, pp 97-101 (USSR)

## ABSTRACT:

In this paper the behavior of dicyclopentyl methane (a hydrocarbon which may belong to the constituents of the petroleum fraction of mineral oil, as far as its constants are concerned) was investigated on its reaction with  $AlCl_3$  and the influence was clarified that is exerted by the methylene group which separates the two five-membered rings, upon the direction of isomerization. On the basis of the experimental results of the present paper it may be regarded as being proved that dicyclopentyl methane, like dicyclopentyl, is subjected to skeleton isomerization under the influence of aluminum chloride and is transformed into the trans- $\beta$ -methyl decahydro naphthalene.

Card 1/2

Isomerization of the Polymethylene Hydrocarbons Under SOV/79-29-1-22/74  
the Influence of Aluminum Chloride.

XXII. Isomerization of the Dicyclopentyl Methane

At 23-27° isomerization takes place in a 96-98 % yield, at 0° in a smaller yield and at -5° there is no isomerization any longer. The presence of  $\beta$ -methyl decahydronaphthalene was found by catalytic dehydrogenation and confirmed spectroscopically. On the dehydrogenation the  $\beta$ -methyl naphthalene was separated and identified as picrate. According to the results obtained it is proved that the methylene group which is situated between the two rings in dicyclopentyl methane does not appreciably influence the direction of isomerization. An attempt was made to establish the isomerization mechanism of dicyclopentyl methane into the trans- $\beta$ -methyl decahydronaphthalene (see both schemes). There are 1 table and 14 references, 9 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet (Moscow State University)

SUBMITTED: November 21, 1957

Card 2/2

VOZNESENKAYA, I. V.

PART I BOOK EXPLORATION

JUL/2/97

Vsesoyuznaya nauchno-tehnicheskaya konferentsiya po stablyarnym i stabil'nyim isotopov i izotopov i izotopicheskoy radiometrii. Radiometricheskaya i radioaktivnaya i radioaktivno-stabil'naya radioaktivnost' i radioaktivnye i radioaktivno-stabil'nye izotopy. Mezhdunarodnye sammoustanovki. Radiometriya. Radiometricheskaya i radioaktivnaya i radioaktivno-stabil'naya radioaktivnost'. Radiometriya i dosimeteriya. Radiometricheskaya i radioaktivnaya i radioaktivno-stabil'naya radioaktivnost'. Radiometriya i dosimeteriya. Trudy konferentsii (izotopov). Radiometriya i dosimeteriya. High-energy gamma-radiation facilities. Radiometry and Dosimetry. Transactions of the All-Union Conference on the Use of Radioactive and Stable Isotopes and Radiation in the National Economy and Sciences) Moscow, Izd-vo Akademii Nauk SSSR, 1958. 293 p. 5,000 copies printed.

Spansoring Agency: Akademika nauk SSSR Glavnaya upravleniye po ispol'sovaniyu atomnoj energii SSSR.

Editorial Board: Proletov, Yu.S. (Resp. Ed.), Zhavoronkov, N.M., V.P. Lebedinskij, K.K. Afanasev, V.K. Al'feyev, B.A. Bochkarev, P.P. Popova, G.I. (Secretary), N.I. Mal'kov, T.P. Sjutin, V.I. and Purnikov. This collection is published for scientists, technologists, persons engaged in medicine or medical research, and others concerned with the production and/or use of radioactive and stable isotopes and radiation.

CONTENTS: Thirty-eight reports are included in this collection under three main sub-sections: 1) production of isotopes; 2) high-energy gamma-radiation facilities; and 3) radiometry and dosimetry.

TABLE OF CONTENTS:

PART I. PRODUCTION OF ISOTOPES

Proletov, Yu.S., V.Y. Bochkarev, and Ye.Ye. Kulish. Development of Isotope Production in the Soviet Union. This report is a general survey of production methods, apparatus, raw materials, applications, investigations, and future prospects for radio isotopes in the Soviet Union. Card 2/12

Sabubin, A.V., I.V. Voznesenskaya, N.G. Zhivotov, V.I. Zatulovskiy, and V.L. Khomyuk. Laboratory Employing Cosmic Radiation. 169

Zatulovskiy, V.I. Sources of Ionizing Radiation for Use in Radiation Chemistry. 191

Petrenko, Yu.S., A.V. Ribernik', and U.Ya. Margulis. A Plant for Irradiation of the Radiation Disinfestation of Grain. 200

Churayev, N.D. Gamma-Radiators for the Preservation of Food Products. 206

PART III. RADIOMETRY AND DOSIMETRY

Adrova, N.A., N.N. Motom, Yu.N. Panov. Utilizing Scintillating Plastics to Register Radioactive Emissions. 213

Novikov, G.R., and A.N. Vysotskij. Using Soviet Germanium Transistors in Building Radiometric Equipment. Card 9/12 220

VOZNESENSKAYA, L.N.

Hungarian laboratory equipment. Tekst.prom. 21 no.5:80-81 My '61.  
(MIRA 15:1)

(Hungary--Textile fabrics--Testing) (Testing machines)

VOZNESENSKAYA, N.

New developments in Indonesia's foreign trade [with English summary  
in supplement]. Vnesh. torg. 29 no.5:18-22 '59.

(MIRA 12:6)

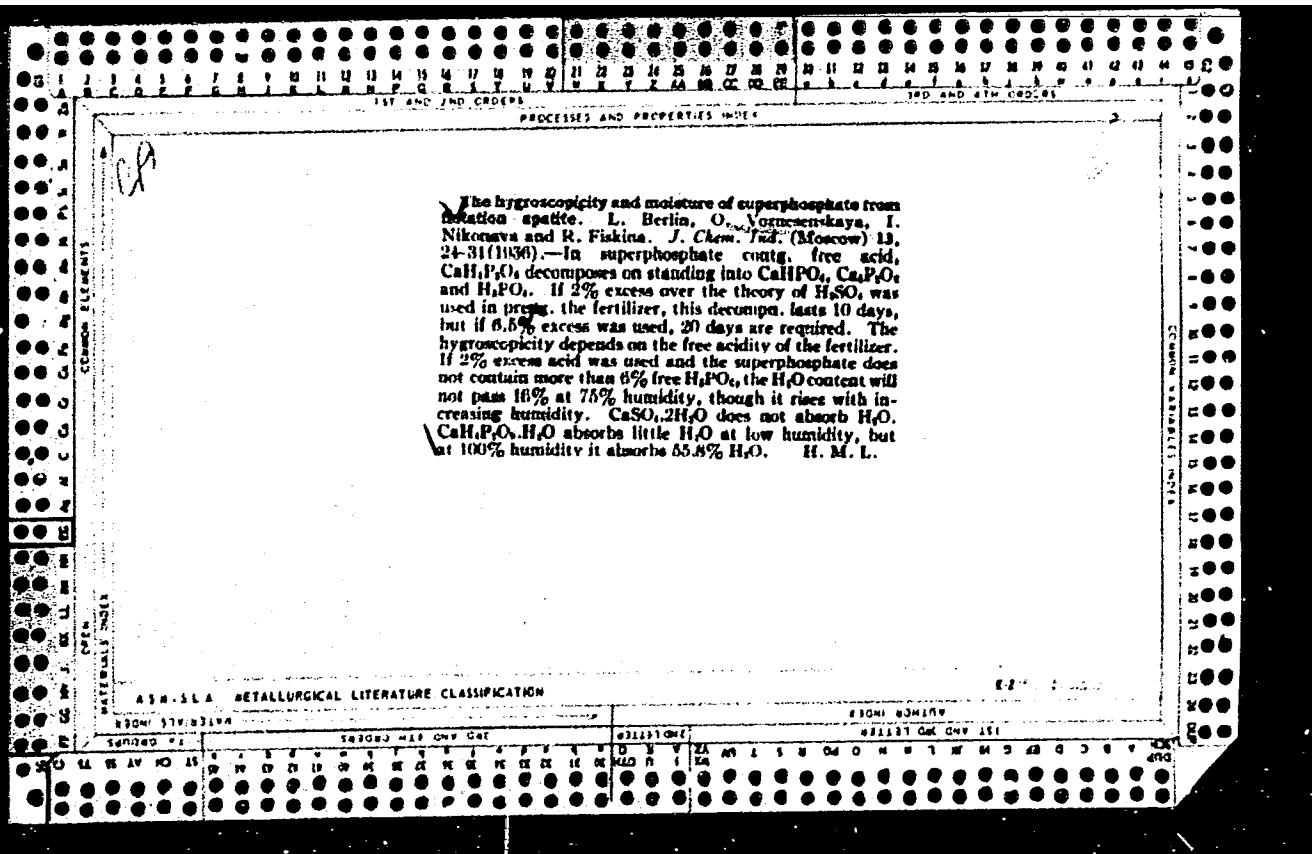
(Indonesia--Economic conditions)

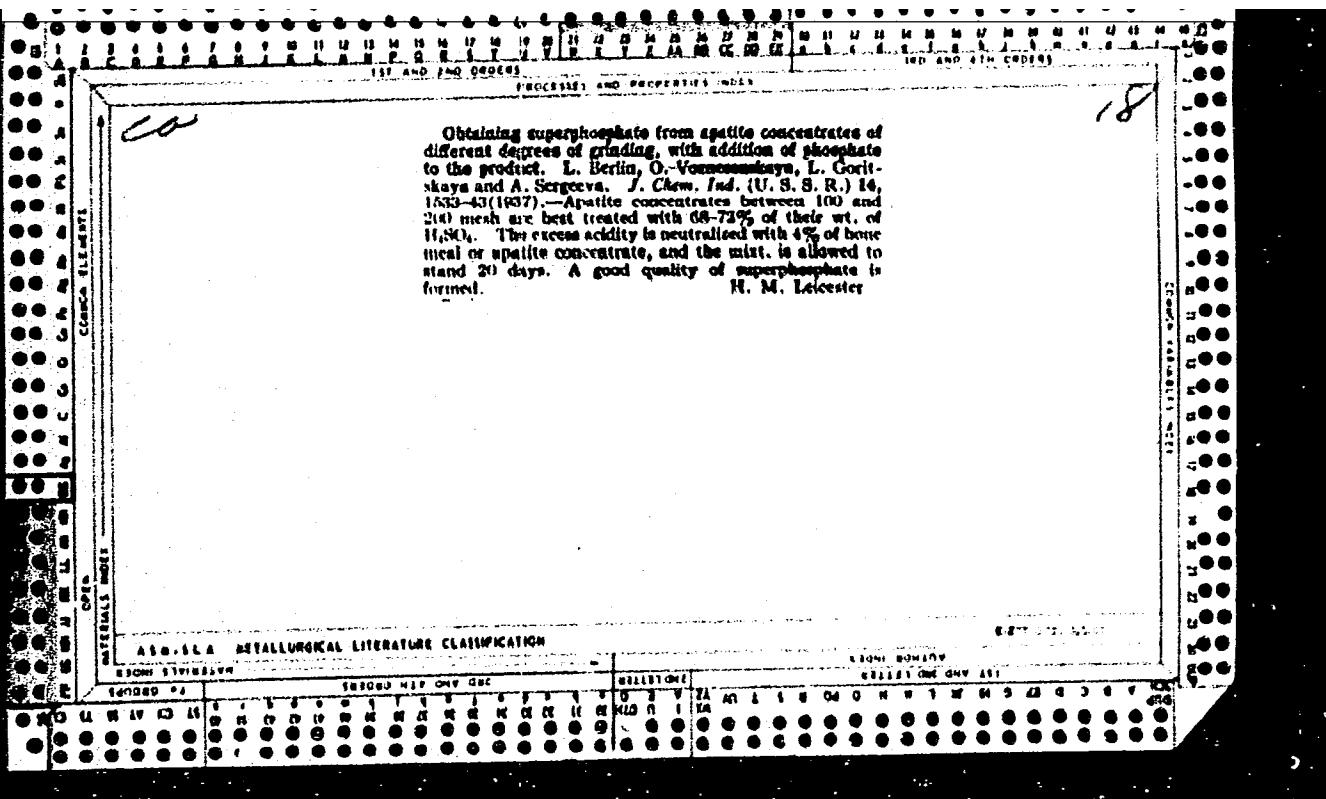
HERKOVICH, M.; KHARCHEVNIKOVA, S.; SHUBINA, L.; SIDOROVA, L.;  
VOZNESENSKAYA, N.

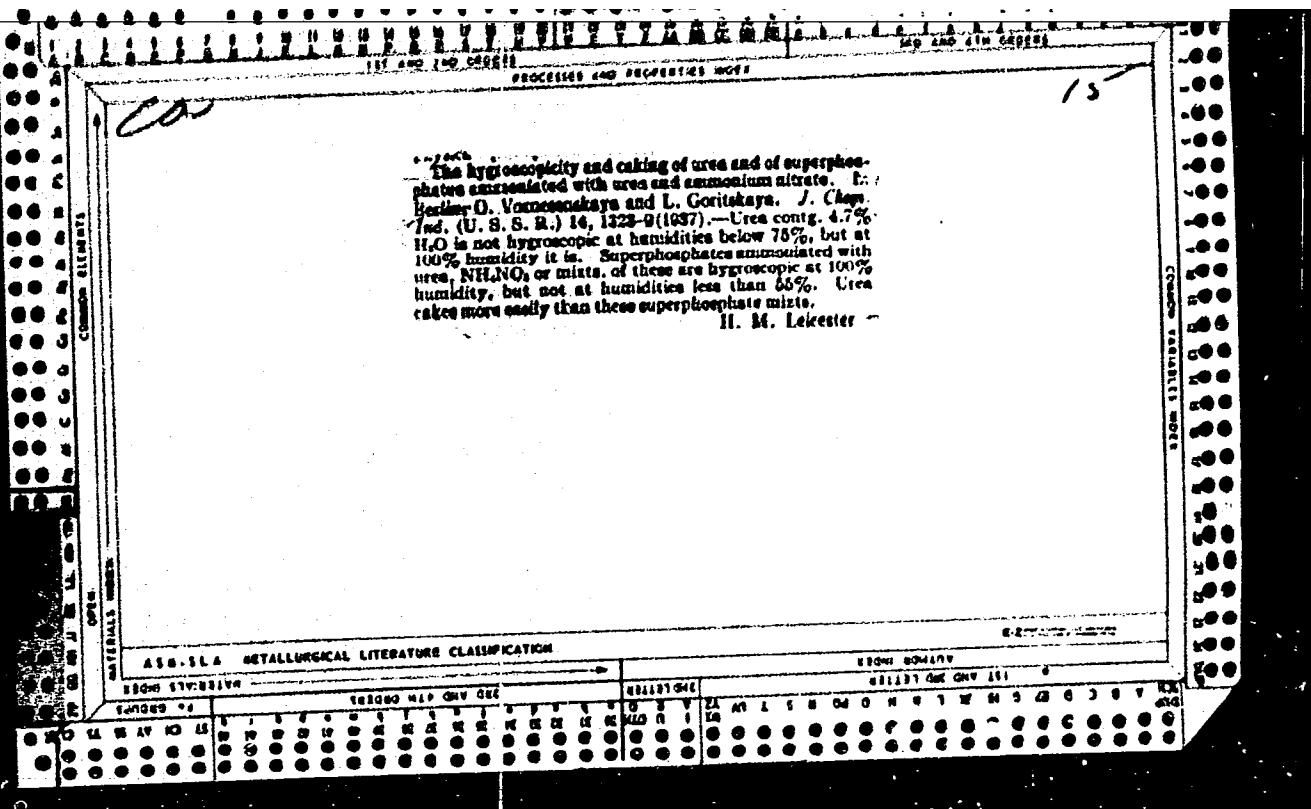
Using mineral pigments in making building materials. Stroi. mat.  
4 no.4:33 Ap '58. (MIRA 11:5)  
(Pigments) (Building materials)

"APPROVED FOR RELEASE: 09/01/2001  
YONENSKAYA, CIA-RDP86-00513R001961210002-9"

Brief report on the work of the Tashkent Scientific Society  
of Anatomists, Histologists and Embryologists. Med.zhur.Uzb.  
no.8:78-79 Ag '62. (MIRA 16:4)  
(ANATOMY, HUMAN—CONGRESSES)

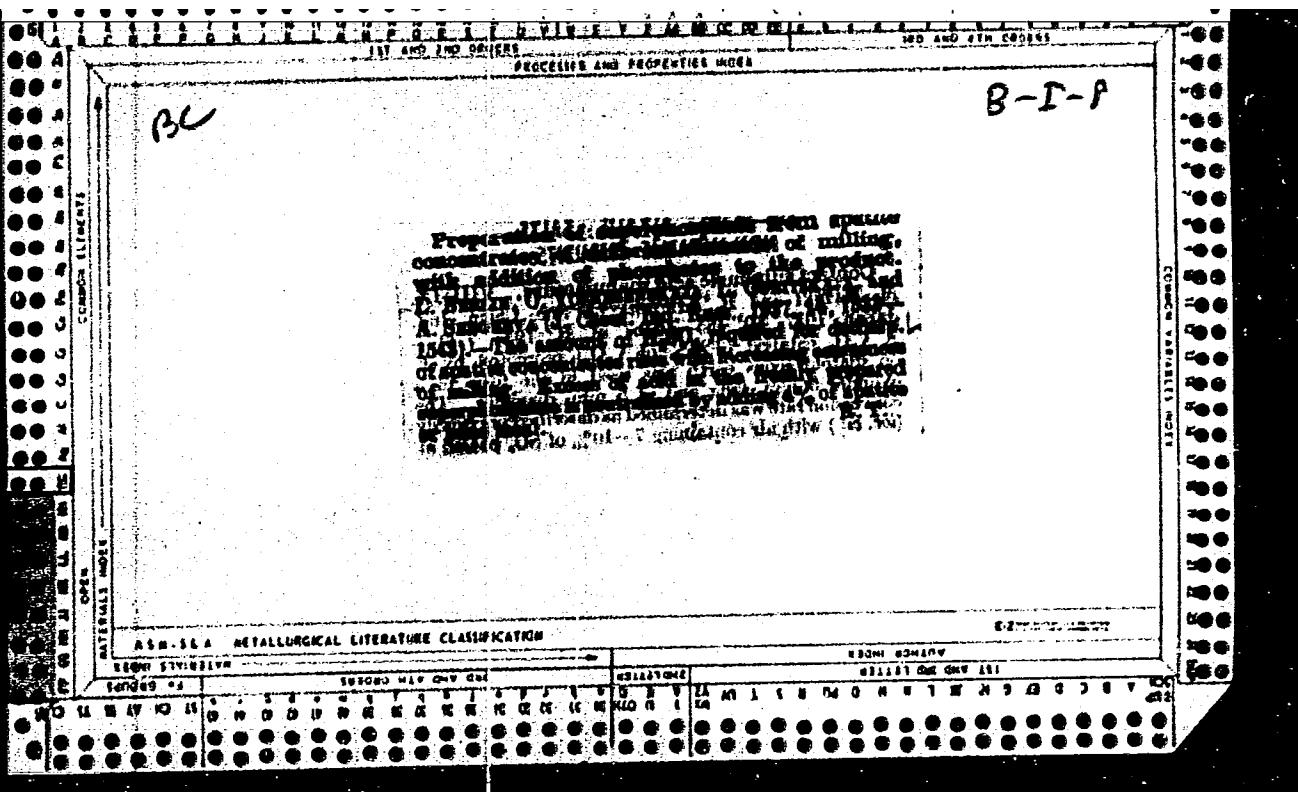






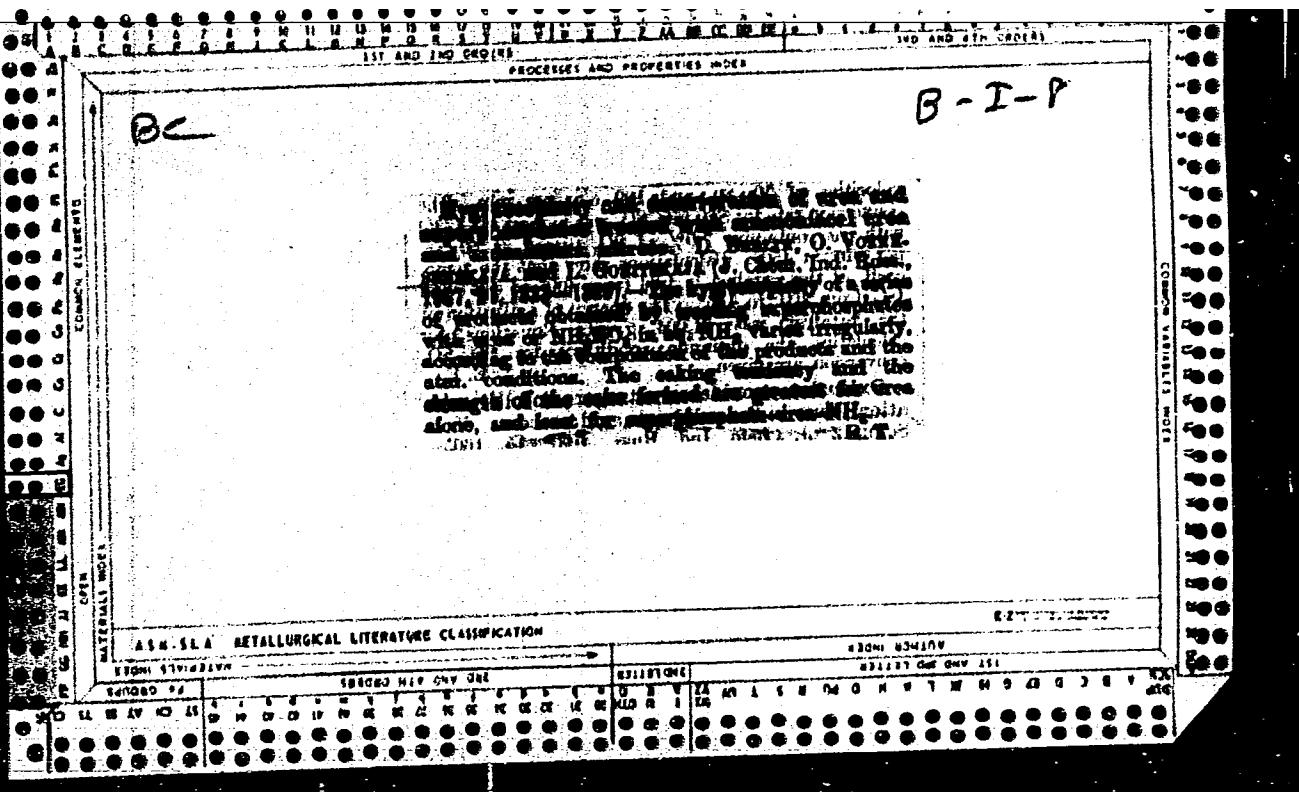
"APPROVED FOR RELEASE: 09/01/2001

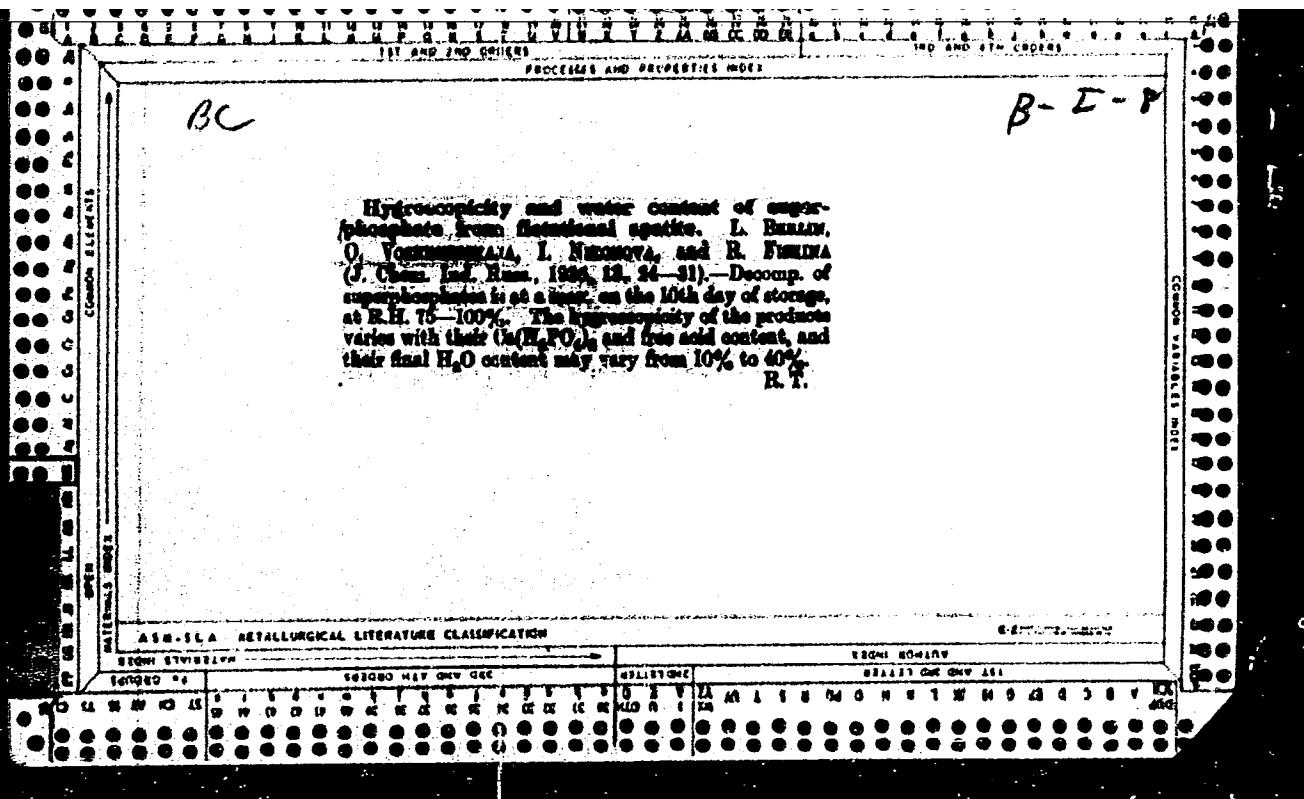
CIA-RDP86-00513R001961210002-9

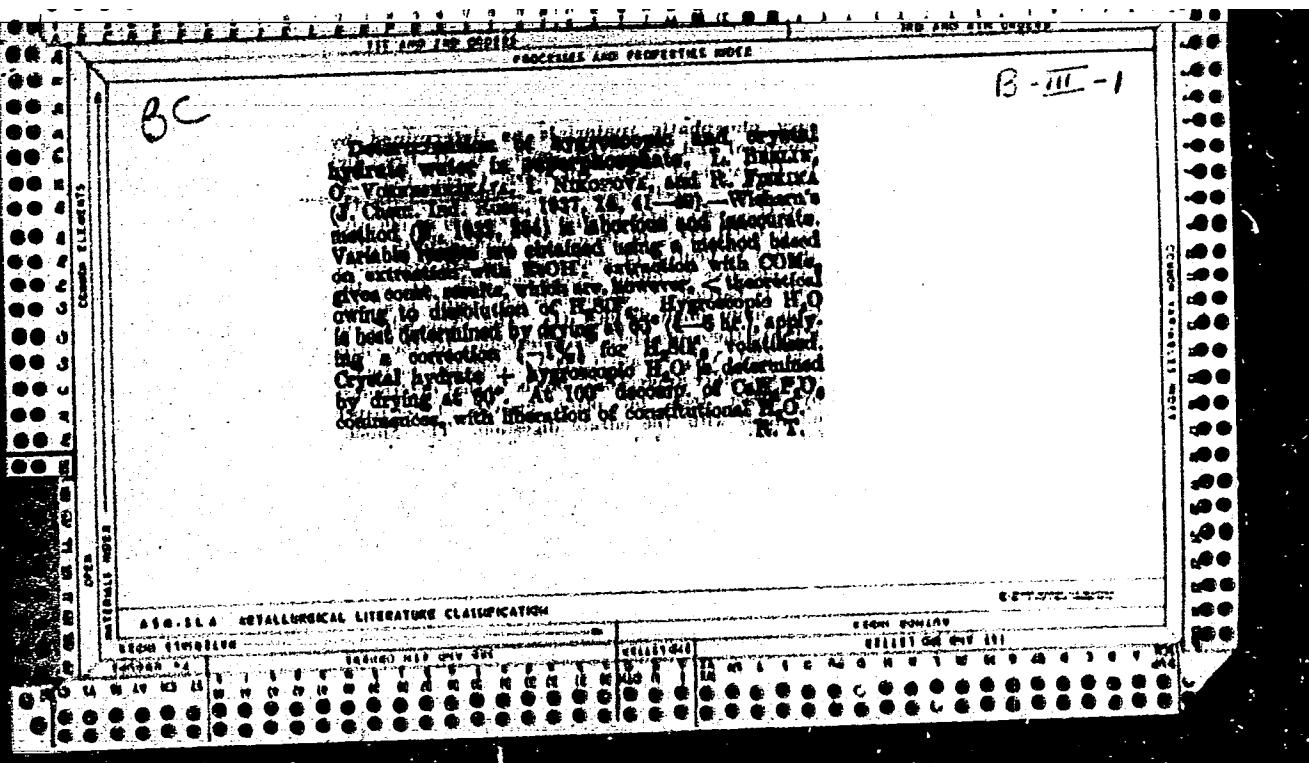


APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961210002-9"





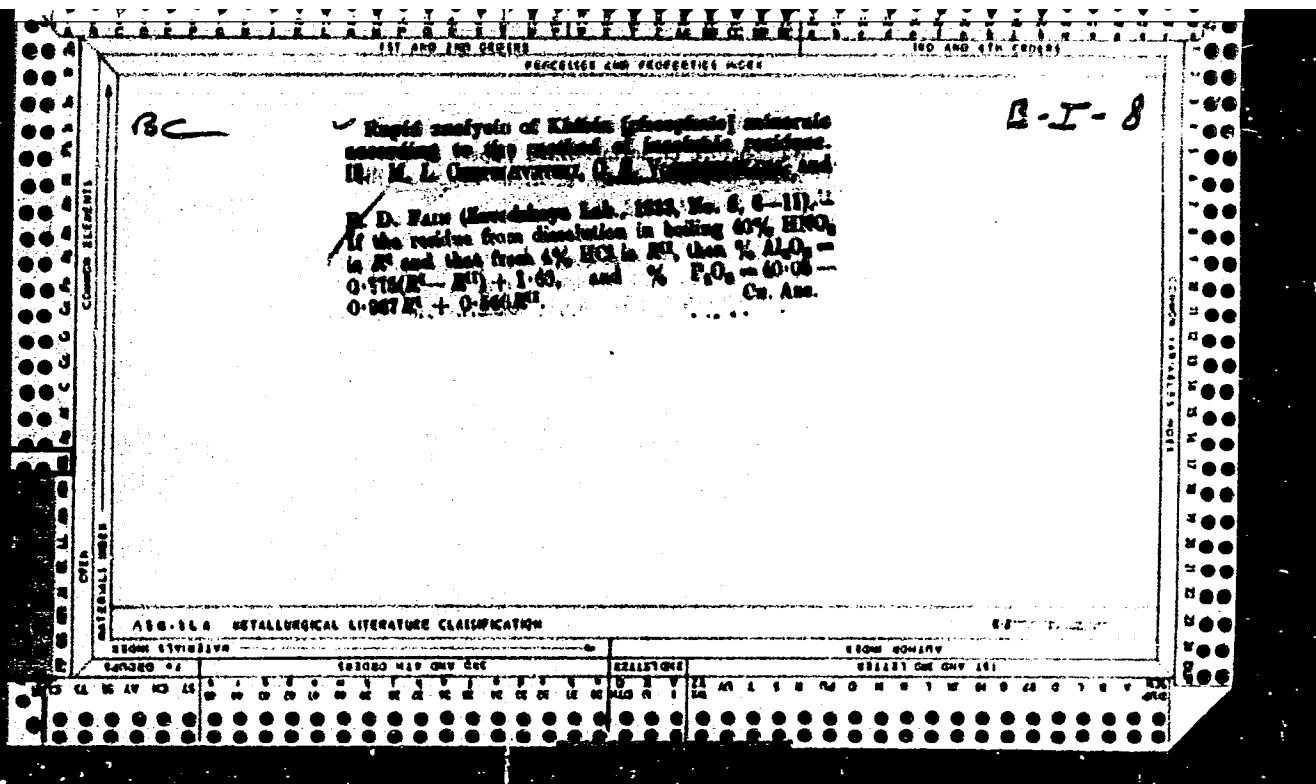


VOZNESENSKAYA, O.

N.

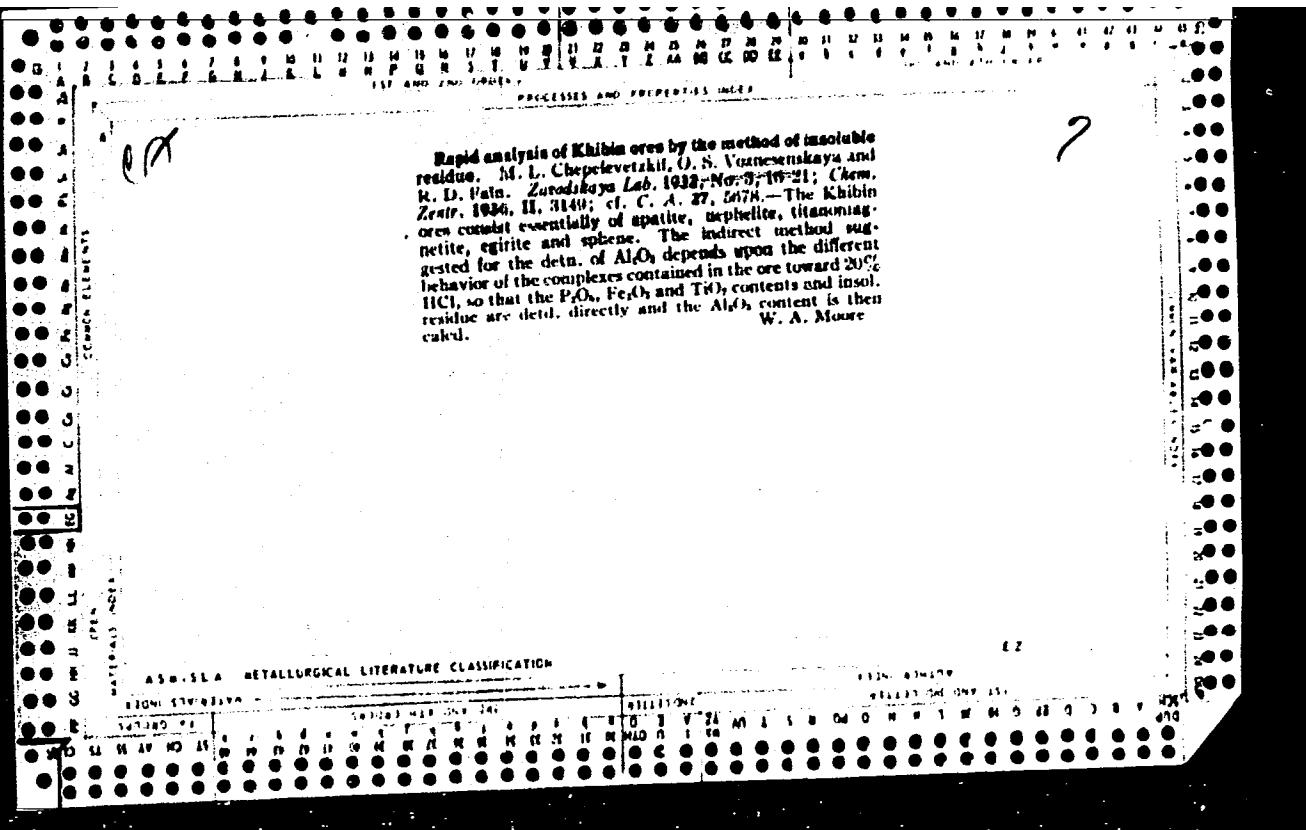
" New Methods of Volumetric Analysis of Solid and Liquid Systems." by O. N. Voznesenskaya and I I Zaslavsky. (p. 1198)

SC: Journal of General Chemistry (Zhurnal Obshchei Khimii) 1946, Volume 16, No.8



7  
Chemical analysis of the Khibini ores according to the method of insoluble residues.  
II. M. L. Chepelevetkil, O. S. Vaznevenskaya and R. D. Pain. Zavodskaya Lab.  
1933, No. 5, 6-11. — The residue from soln. in 4% boiling  $HNO_3$  is  $R^I$ , that from 4%  
 $HCl$  is  $R^{II}$ . Then, percentage of  $Al_2O_3 = 0.776 (R^I - R^{II}) + 1.05$  and percentage of  
 $P_2O_5 = 40.05 - 0.887 R^I + 0.560 R^{II}$ .  
M. C. de Mohai

## ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION



Heat loss through the gas in incandescent lamps  
S. N. Vosnenchikova. Svetotekhnika 1937, 32 (1), 47-50.  
Zemly, 1937, II, 2570. An improved formula was developed for the heat loss from a W spiral of an incandescent lamp, which showed better agreement with exptl. data. The heat loss was determined, exptl., for one part of the spiral was heated to a high temp., while the other portion was heated to the same temp., in the gas in question. The difference between the watts consumed in the gas and in vacuum is a measure of the heat loss. The heat losses in various gases at a W wire temp. of 2400° were calcd. For a wire 0.1 mm. in diam, the heat loss in watts per cm. of wire length was 4.1 in N<sub>2</sub>, 2.65 in a mixt. of 80% Ar + 14% N<sub>2</sub>, 1.67 in 40% Kr + 20% Ar, 1.00 in 40% Kr + 30% Xe, and 1.52 in Kr. M. G. Moore

ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION

1930-1933

1934-1937

1938-1941

1942-1945

1946-1949

1950-1953

1954-1957

1958-1961

1962-1965

1966-1969

1970-1973

1974-1977

1978-1981

1982-1985

1986-1989

1990-1993

1994-1997

1998-2001

VOZNESENSKAYA, T.

Science

Popularizing natural science literature. Klub no. 3. 1952.

Monthly List of Russian Accessions, Library of Congress, August, 1952. Unclassified.

VOZNESENSKAYA, T.I.; FOK, M.V.

Orange ZnS-Cu phosphor obtained by the electrolytic method. Opt. i  
spekt. 15 no. 2:249-252 Ag '63. (MIRA 17:1)

L 61675-65 cat(1) Fi-4 I.P.(1)  
ACCESSION NR: AP5011120

UR/0051/65/018/004/0656/0660  
535.373.1

AUTHOR: Voznesenskaya, T. I.; Fok, M. V.

TITLE: On the nature of red luminescence<sup>21</sup> in ZnS-Cu phosphors

SOURCE: Optika i spektroskopiya, v. 18, no. 4, 1965, 656-660

TOPIC TAGS: zinc sulfide optical material, luminescence, acceptor level, donor level, luminescence center

ABSTRACT: This is a continuation of earlier work (Opt. i spektr. v. 15, 249, 1963) on orange-glow ZnS-Cu phosphors, in which the red luminescence centers were attributed to donor action of Cu. To check on this assumption, the authors investigated in the present research the temperature dependence of the conductivity of the phosphors and also the green-glow phosphors (where the copper forms acceptor

Card 1/2

L 61675-65

ACCESSION NR: AP5011120

by electrons, the authors compared the kinetics of the red luminescence, on one hand, and that of blue and green luminescence on the other. The results indicate that the red luminescence occurs only in the presence of free holes that can recombine with electrons at 1.6 eV donor levels, thus offering evidence in favor of

Card 2/2

EW : BLS APP

S/0051/63/C157 12/12/24 00172

ACQUISITION NO: AP3005849

AUTHOR: Voznesenskaya, T.I.; Fok, M.V.

TITLE: Orange ZnS-Cu phosphor prepared by an electrolytic procedure

SOURCE: Optika i Spektroskopiya, v.15, no.2, 1983, 249-252

TOPIC T10S: phosphor synthesis, ZnS:Cu:Cl, zinc sulfide

ABSTRACT: The electrolytic technique for preparing phosphors has the advantage that it allows of introducing a single type of impurity ions, which is important for studying luminescence centers. The electrolytic technique was first employed by I.S. Andreyev, L.V. Zyrina and G.B. Arzamanyan (Izv. AN Uzb.SSR, No.4, 33, 1961). The electrolytic procedure was used in the present study for preparing ZnS-Cu phosphors without Cl. It consisted of the following: luminescence pure ZnS, treated beforehand in hydrogen sulfide at 900°C to eliminate zinc sulfate, was loaded into a 6 mm diameter quartz tube between spectroscopic grade graphite electrodes (see the Enclosure); a 3 mm thick "plug" of previously prepared green-luminescing ZnS-Cu ( $10^{-4}$  g/g), Cl or a batch of flux-free ZnS-Cu ( $10^{-4}$  g/g) mix was packed in the center of the charge (3 in Fig.1,a). The whole tube was then placed in a quartz

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test tube from which the air was displaced by dry and oxygen-free argon, and the whole assembly was heated in a furnace to 1060°C for 12-15 hours, while passing a current between the electrodes. The initial current was 2 mA, but this gradually increased to 8 mA. For control purposes a similar specimen was prepared without passage of current. The specimens prepared with passage of current luminesced. An orange band (2 mm or more wide, depending on the heating time) appeared near the cathode. The "plug" did not luminesce. The zinc sulfide at the anode luminesced blue, when the "plug" contained NaCl flux. The control specimen did not exhibit this behavior. The luminescence spectrum of the ZnS-Cu varied somewhat, depending on the electrolysis time. A number of variant experiments were performed. In addition to studying the luminescence centers formed by diffusion, the authors investigated the trap depths (the orange phosphor has few shallow traps). The effect of oxygen was also studied. The question of the chemical structure of the phosphors remains open, but the experimental results suggest that while formation of green centers is connected with the presence of lattice defects, the formation of orange centers is not. Orig. art. has: 3 figures and 1 table.

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